



SEQUENCE LISTING

0110: Jeffers, Michael  
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Baldog, Ferenc L  
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LaRockelle, William J  
Lichenstein, Henri

0120: Novel Fibroblast Growth Factor and Nucleic Acids  
Encoding Same

0130: 15966-557 CIP1

0140: 03/609,843

0141: 1999-07-03

0150: 03/194,815

0151: 1999-01-31

0159: 09/145,849

0161: 1999-07-27

0169: 15

0170: PatentIn Ver. 2.1

0210: 1

0211: 633

0212: DNA

0213: Homo sapiens

0400: 1

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<211> 211

<212> FRT

<213> Homo sapiens

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Leu Gly Gln Gln Val Gly Ser His Phe Leu Leu Pro Pro Ala Gly Glu  
20 25 30

Arg Pro Pro Leu Leu Gly Glu Arg Arg Ser Ala Ala Glu Arg Ser Ala  
35 40 45

Arg Gly Gly Pro Gly Ala Ala Gln Leu Ala His Leu His Gly Ile Leu  
50 55 60

Arg Arg Arg Gln Leu Tyr Cys Arg Thr Gly Phe His Leu Gln Ile Leu  
65 70 75 80

Pro Asp Gly Ser Val Gln Gly Thr Arg Gln Asp His Ser Leu Phe Gly  
85 90 95

Ile Leu Glu Phe Ile Ser Val Ala Val Gly Leu Val Ser Ile Arg Gly  
100 105 110

Val Asp Ser Gly Leu Tyr Leu Gly Met Asn Asp Lys Gly Glu Leu Tyr  
115 120 125

Gly Ser Glu Lys Leu Thr Ser Glu Cys Ile Phe Arg Glu Gln Phe Glu  
130 135 140

Glu Asn Trp Tyr Asn Thr Tyr Ser Ser Asn Ile Tyr Lys His Gly Asp  
145 150 155 160

Thr Gly Arg Arg Tyr Phe Val Ala Leu Asn Lys Asp Gly Thr Pro Arg  
165 170 175

Asp Gly Ala Arg Ser Lys Arg His Gln Lys Phe Thr His Phe Leu Pro  
180 185 190

Arg Pro Val Asp Pro Glu Arg Val Pro Glu Leu Tyr Lys Asp Leu Leu  
195 200 205

Met Tyr Thr

210

<210> 3  
<211> 38  
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<213> Artificial Sequence

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<221> Description of Artificial Sequence:FGF-CX Forward  
Primer

<210> 3  
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<210> 4  
<211> 34  
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<213> Artificial Sequence

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<221> Description of Artificial Sequence:FGF-CX Reverse  
Primer

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<211> 424  
<212> DNA  
<213> Homo sapiens

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tctacctcgg gatgaatgag aagggggagc tgtatggatc agaaaaacta aaccaagagt 240  
gtttattcag agaacagttc gaagaaaact ggtataatac gtacttgtaa aacctatata 300  
agcngtggc cactggaagg cgatactatg ttgcattaaa taaagatggg accccgagag 360  
aaggaactag gactaaacgg caccagaaat tcacacattt ttactataga ccagtggacc 420  
caga 424

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<211> 235  
<212> DNA

<213> Homo sapiens

<408> 6

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atggcagacc ccgggccgcg cggcgogctt ccgtccggcc gcgtccctgc gctggcccag 180
cagcggcggc cgtcccccgg caggaggcaa caggaaatgc gaacccacct gctggcccaa 240
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<211> 355

<212> DNA

<213> Homo sapiens

<408> 7

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<212> DNA

<213> Homo sapiens

<408> 8

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<212> PRT

<213> Homo sapiens

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Val Pro Phe Gly Asn Val Pro Val Leu Pro Val Asp Ser Pro Val Leu

20 25 30

Leu Ser Asp His Leu Gly Gln Ser Glu Ala Gly Gly Leu Pro Arg Gly

35 40 45

Pro Ala Val Thr Asp Leu Asp His Ileu Lys Gly Ile Leu Arg Arg Arg  
50 55 60

Gln Leu Tyr Cys Arg Thr Gly Phe His Leu Glu Ile Phe Pro Asn Gly  
65 70 75 80

Thr Ile Gln Gly Thr Arg Lys Asp His Ser Arg Phe Gly Ile Leu Glu  
85 90 95

Phe Ile Ser Ile Ala Val Gly Leu Val Ser Ile Arg Gly Val Asp Ser  
100 105 110

Gly Leu Tyr Leu Gly Met Asn Glu Lys Gly Glu Leu Tyr Gly Ser Glu  
115 120 125

Lys Leu Thr Gln Glu Cys Val Phe Arg Glu Gln Phe Glu Glu Asn Trp  
130 135 140

Tyr Asn Thr Tyr Ser Ser Asn Leu Tyr Lys His Val Asp Thr Gly Arg  
145 150 155 160

Arg Tyr Tyr Val Ala Leu Asn Lys Asp Gly Thr Pro Arg Glu Gly Thr  
165 170 175

Arg Thr Lys Arg His Gln Lys Phe Thr His Phe Leu Pro Arg Pro Val  
180 185 190

Asp Pro Asp Lys Val Pro Glu Leu Tyr Lys Asp Ile Leu  
195 200 205

00100 10

00110 205

00120 PRT

00130 Mus musculus

00400 10

Met Ala Pro Leu Gly Glu Val Gly Ser Tyr Phe Gly Val Gln Asp Ala  
1 5 10 15

Val Pro Phe Gly Asn Val Pro Val Leu Pro Val Asp Ser Pro Val Leu  
20 25 30

Leu Asn Asp His Leu Gly Gln Ser Glu Ala Gly Gly Leu Pro Arg Gly  
35 40 45

Pro Ala Val Thr Asp Leu Asp His Leu Lys Gly Ile Leu Arg Arg Arg  
50 55 60

Gln Leu Tyr Cys Arg Thr Gly Phe His Leu Glu Ile Phe Pro Asn Gly  
 65 70 75 80

Thr Ile Gln Gly Thr Arg Lys Asp His Ser Arg Phe Gly Ile Leu Glu  
 85 90 95

Phe Ile Ser Ile Ala Val Gly Leu Val Ser Ile Arg Gly Val Asp Ser  
 100 105 110

Gly Leu Tyr Leu Gly Met Asn Glu Lys Gly Glu Leu Tyr Gly Ser Glu  
 115 120 125

Lys Leu Thr Gln Glu Cys Val Phe Arg Gln Gln Phe Glu Glu Asn Trp  
 130 135 140

Tyr Asn Thr Tyr Ser Ser Asn Leu Tyr Lys His Val Asp Thr Gly Arg  
 145 150 155 160

Arg Tyr Tyr Val Ala Leu Asn Lys Asp Gly Thr Pro Arg Glu Gly Thr  
 165 170 175

Arg Thr Lys Arg His Gln Lys Phe Thr His Phe Leu Pro Arg Pro Val  
 180 185 190

Asp Pro Asp Lys Val Pro Glu Leu Tyr Lys Asp Ile Leu  
 195 200 205

0110: 11  
 0111: 205  
 0112: PRT  
 0113: Rattus norvegicus

0400: 11  
 Met Ala Pro Leu Gly Glu Val Gly Ser Tyr Phe Gly Val Glu Asp Ala  
 1 5 10 15

Val Pro Phe Gly Asn Val Pro Val Leu Pro Val Asp Ser Pro Val Leu  
 20 25 30

Leu Ser Asp His Leu Gly Gln Ser Glu Ala Gly Gly Leu Pro Arg Gly  
 35 40 45

Pro Ala Val Thr Asp Leu Asp His Leu Lys Gly Ile Leu Arg Arg Arg  
 50 55 60

Gln Leu Tyr Cys Arg Thr Gly Phe His Leu Glu Ile Phe Pro Asn Gly

65	70	75	80
Thr Ile Gln Gly Thr Arg Lys Asp His Ser Arg Phe Gly Ile Leu Glu			
85	90	95	
Phe Ile Ser Ile Ala Val Gly Leu Val Ser Ile Arg Gly Val Asp Ser			
100	105	110	
Gly Leu Tyr Leu Gly Met Asn Glu Lys Gly Glu Leu Tyr Gly Ser Glu			
115	120	125	
Lys Leu Thr Gln Glu Cys Val Phe Arg Glu Gln Phe Glu Glu Asn Trp			
130	135	140	
Tyr Asn Thr Tyr Ser Ser Asn Leu Tyr Lys His Val Asp Thr Gly Arg			
145	150	155	160
Arg Tyr Tyr Val Ala Leu Asn Lys Asp Gly Thr Pro Arg Glu Gly Thr			
165	170	175	
Arg Thr Lys Arg His Gln Lys Phe Thr His Phe Leu Pro Arg Pro Val			
180	185	190	
Asp Pro Asp Lys Val Pro Glu Leu Tyr Lys Asp Ile Leu			
195	200	205	

0110: 12  
 0111: 208  
 0112: PRT  
 0113: Xenopus laevis

0400: 12
Met Ala Pro Leu Ala Asp Val Gly Thr Phe Leu Gly Gly Tyr Asp Ala
1 5 10 15
Leu Gly Gln Val Gly Ser His Phe Leu Leu Pro Pro Ala Lys Asp Ser
20 25 30
Pro Leu Leu Phe Asn Asp Pro Leu Ala Gln Ser Glu Arg Leu Ser Arg
35 40 45
Ser Ala Pro Ser Asp Leu Ser His Leu Gln Gly Ile Leu Arg Arg Arg
50 55 60
Gln Leu Tyr Cys Arg Thr Gly Phe His Leu Gln Ile Leu Pro Asp Gly
65 70 75 80

Asn Val Gln Gly Thr Arg Gln Asp His Ser Arg Phe Gly Ile Leu Glu  
85 90 95

Phe Ile Ser Val Ala Ile Gly Leu Val Ser Ile Arg Gly Val Asp Thr  
100 105 110

Gly Leu Tyr Leu Gly Met Asn Asp Lys Gly Glu Leu Phe Gly Ser Glu  
115 120 125

Lys Leu Thr Ser Glu Cys Ile Phe Arg Glu Gln Phe Glu Glu Asn Trp  
130 135 140

Tyr Asn Thr Tyr Ser Ser Asn Leu Tyr Lys His Gly Asp Ser Gly Arg  
145 150 155 160

Arg Tyr Phe Val Ala Leu Asn Lys Asp Gly Thr Pro Arg Asp Gly Thr  
165 170 175

Arg Ala Lys Arg His Gln Lys Phe Thr His Phe Leu Pro Arg Pro Val  
180 185 190

Asp Pro Glu Lys Val Pro Glu Leu Tyr Lys Asp Leu Met Gly Tyr Ser  
195 200 205

<210> 13  
<211> 26  
<212> PRT  
<213> Homo sapiens

<210> 13  
Gln Asp His Ser Leu Phe Gly Ile Leu Glu Phe Ile Ser Val Ala Val  
1 5 10 15

Gly Leu Val Ser Ile Arg Gly Val Asp Ser  
20 25

<210> 14  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: pGec-V5-His



Forward Primer

<400> 14  
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<210> 15  
<211> 31  
<212> DNA  
<213> Artificial Sequence

<214>  
<215> Description of Artificial Sequence:pSec-V5-His  
Reverse Primer

<400> 15  
ctcgtccggs ccctgattag cgggtttaaa c 31

<210> 16  
<211> 14  
<212> DNA  
<213> Artificial Sequence

<214>  
<215> Description of Artificial Sequence:Oligonucleotide  
linker

<400> 16  
ctcgtccggs ctac 14

<210> 17  
<211> 14  
<212> DNA  
<213> Artificial Sequence

<214>  
<215> Description of Artificial Sequence:Oligonucleotide  
linker

<400> 17  
ctcgtccggs tgac 14

<210> 18  
<211> 20  
<212> DNA

<213> Artificial Sequence

<270>

<223> Description of Artificial Sequence:Ag31b Forward  
Primer

<400> 18

ggacacacagc ctcttcggta

20

<100> 19

<111> 19

<112> DNA

<213> Artificial Sequence

<270>

<223> Description of Artificial Sequence:Ag31b Reverse  
Primer

<400> 19

tttctacacc tctaataatg accag

25

<100> 20

<111> 20

<112> DNA

<213> Artificial Sequence

<270>

<223> Description of Artificial Sequence:Ag31b Probe  
Primer

<400> 10

ttactttcca cactgatgaa ttccaa

26

<100> 11

<111> 11

<112> DNA

<213> Artificial Sequence

<270>

<223> Description of Artificial Sequence:Ag81 Forward  
Primer

<400> 21

aggcagaagc gggagataga t

21

<210> 22

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Ag81 Reverse  
Primer

<400> 12

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<210> 23

<211> 25

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Ag81 Probe  
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<400> 13

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28

<10> 4

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<12> PRT

<13> Homo sapiens

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1

5

10

15

Gly Phe Ser Ser Ser Leu Gly Asn Val Pro Leu Ala Asp Ser Pro Gly

20

25

30

Phe Leu Asn Glu Arg Leu Gly Gln Ile Glu Gly Lys Leu Gln Arg Gly

35

40

45

Ser Pro Thr Asp Phe Ala His Leu Lys Gly Ile Leu Arg Arg Arg Gln

50

55

60

Leu Tyr Cys Arg Thr Gly Phe His Leu Glu Ile Phe Pro Asn Gly Thr

65

70

75

80

Val His Gly Thr Arg His Asp His Ser Arg Phe Gly Ile Leu Glu Phe  
85 90 95

Ile Ser Leu Ala Val Gly Leu Ile Ser Ile Arg Gly Val Asp Ser Gly  
100 105 110

Leu Tyr Leu Gly Met Asn Glu Arg Gly Glu Leu Tyr Gly Ser Lys Lys  
115 120 125

Leu Thr Arg Glu Cys Val Phe Arg Glu Gln Phe Glu Glu Asn Trp Tyr  
130 135 140

Asn Thr Tyr Ala Ser Thr Leu Tyr Lys His Ser Asp Ser Glu Arg Gln  
145 150 155 160

Tyr Tyr Val Ala Leu Asn Lys Asp Gly Ser Pro Arg Glu Gly Tyr Arg  
165 170 175

Thr Lys Arg His Gln Lys Phe Thr His Phe Leu Pro Arg Pro Val Asp  
180 185 190

Pro Ser Lys Leu Pro Ser Met Ser Arg Asp Leu Phe His Tyr Arg  
195 200 205

(210): 25

(211): 314

(212): DNA

(213): Homo sapiens

(240): 25

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